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PNA-DNA-PNA CHIMERIC MACROMOLECULES

ABSTRACT OF THE DISCLOSURE

Macromolecules are provided that have increased nuclease resistance, increasing binding affinity to a complementary strand, and that activate RNase H enzyme. The macromolecules have the structure PNA-DNA-PNA where the DNA portion is composed of subunits of 2'-deoxy-erythro-pentofuranosyl nucleotides and the PNA portions are composed of subunits of peptide nucleic acids. Such macromolecules are useful for diagnostics and other research purposes, for modulating protein in organisms, and for the diagnosis, detection and treatment of other conditions susceptible to therapeutics.

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